

SEQUENCE LISTING

<110> Galen, James E.

<120> PLASMID MAINTAINENCE SYSTEM FOR ANTIGEN DELIVERY

<130> F164622

<140> 09/453,313

<141> 1999-12-02

<150> US 09/204,117

<151> 1998-12-02

<150> US 60/158,738

<151> 1999-10-12

<160> 40

<170> PatentIn version 3.2

<210> 1

<211> 4196

<212> DNA

<213> Artificial Sequence

<220>

<223> Complete nucleotide sequence of pGEN2

<400> 1

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<210> 2
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<220>
 <223> Partial nucleotide sequence of pGEN3: nucleotides 1201-2397
 encoding ori15A

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<210> 3
 <211> 2647
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial nucleotide sequence of pGEN4: nucleotides 1201-3848
 encoding oril01

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 acagctttta atgcacacaaa aactcgtaaa agctctgatg tatctatctt ttttacaccg 180
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<223> Portion of promoter sequence

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<210> 5
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Portion of promoter sequence

<400> 5
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<210> 6
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

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 gatgaa 66

<210> 7
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

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 cgtagc 66

<210> 8
 <211> 69
 <212> DNA
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<220>
 <223> Primer

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<210> 9

<211> 77

<212> DNA

<213> Artificial Sequence

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<223> Primer

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atgagtatcc tcttcag 77

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<213> Artificial Sequence

<220>

<223> Primer

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ccggaagtac gc 72

<210> 11

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

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cgcg 64

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

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<220>
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<210> 14
<211> 53
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<210> 16
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aaag 64

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 <210> 19
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 <220>
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 <223> Primer

 <400> 21

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<210> 22
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

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<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 23
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<210> 24
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

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c 61

<210> 25
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<220>
<223> Primer

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ggagaaagg 69

<210> 26
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

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tgcgctcat 69

<210> 27
<211> 65
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<220>
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tgatc 65

<210> 28
<211> 50
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<220>
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<210> 29
<211> 61
<212> DNA
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<220>
<223> Primer

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t 61

<210> 30

<211> 61
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 <223> Primer

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 g 61

 <210> 31
 <211> 61
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 <210> 33
 <211> 61
 <212> DNA
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 <220>
 <223> Primer

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<210> 34
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 <210> 35
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 <220>
 <223> Primer

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 gggcgccctc 70

 <210> 36
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Modified Promoter Sequence

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 <221> misc_feature
 <222> (6)..(6)
 <223> "n" may be G, C or A

 <220>
 <221> misc_feature
 <222> (7)..(7)
 <223> "n" is an insert of 1 to 5 nucleotides selected from A, C, G and
 T

 <220>
 <221> misc_feature
 <222> (11)..(11)
 <223> "n" is A, C, G or T

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